

Abstract of the Disclosure

An endoscope system for providing imaging and intervention therapy comprises a control module, a light source in electrical communication with the control module, an intervention energy source in electrical communication with the control module, and a micro-endoscopic device. The micro-endoscopic device includes an optical probe, in optical communication with the light source and the intervention energy source, and a sensor array, in optical communication with the optical probe and in electrical communication with the control module. The light source is activated by the control module to emit a series of light pulses which are directed to a target area by the optical probe. Light reflected from the target area is collected by the optical probe, which conducts the reflected light to the sensor array. The sensor array transmits an image of the target area to the control module. The control module is operable to activate the intervention energy source to emit intervention energy which is conducted to the target area by the optical probe.